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APPLICATION NO. FILING DATE 09/885,792 06/20/2001		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
		Basanth Jagannathan FIS920000402US1		4506	
75	590 12/11/2002				
Michael E. Whitham			EXAMINER		
McGuireWoods, LLP Suite 1800			LATTIN, CHRISTOPHER W		
1750 Tysons Bl McLean, VA 2			ART UNIT	PAPER NUMBER	
,			2812		
			DATE MAILED: 12/11/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

			_	Nov.				
		Application N	o. •	Applicant(s)				
Office Action Summary		09/885,792	 -	JAGANNATHAN I	ET AL.			
		Examiner		Art Unit				
		Christopher W	Lattin	2812				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE MAILING DATE OF - Extensions of time may be availa after SIX (6) MONTHS from the received in the period for reply specified at the two period for reply is specified. - Failure to reply within the set or earned patent term adjustment. Status	THIS COMMUNICATION. ble under the provisions of 37 CFR 1 nailing date of this communication. oove is less than thirty (30) days, a re above, the maximum statutory period extended period for reply will, by statuater than three months after the mailings of CFR 1.704(b).	.136(a). In no event, heply within the statutory d will apply and will expute, cause the application ing date of this commu	nowever, may a reply be ti minimum of thirty (30) da bire SIX (6) MONTHS fror on to become ABANDON nication, even if timely file	mely filed ys will be considered time in the mailing date of this of ED (35 U.S.C. § 133).	ly. communication.			
1) Responsive to cor	mmunication(s) filed on <u>13</u>							
2a)⊠ This action is FIN	AL . 2b)□ 1	This action is no	n-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	re pending in the application	on.						
4) Of the above of	aim(s) <u>1-12</u> is/are withdra	wn from conside	eration.					
4a) Of the above of 5) Claim(s) is/:								
5)								
-								
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
8) Claim(s) are Application Papers	o subject to restriction and							
9) The specification is	objected to by the Exami	iner.						
10) The drawing(s) filed	d on is/are: a)∏ ac	cepted or b) 🗌 ot	jected to by the Ex	caminer.				
Applicant may not	request that any objection to	the drawing(s) be	e held in abeyance.	See 37 CFR 1.85(a).			
11) The proposed draw	ving correction filed on	is: a)∏ app	roved b) disapp	proved by the Exam	iner.			
If approved, correct	cted drawings are required in	reply to this Offic	e action.					
	ation is objected to by the							
Priority under 35 U.S.C. §§	119 and 120							
13) Acknowledgment	is made of a claim for fore	eign priority unde	er 35 U.S.C. § 119	9(a)-(d) or (f).				
a) All b) Some	e * c) None of:							
1. ☐ Certified co	1. Certified copies of the priority documents have been received.							
2 ☐ Certified co	pies of the priority docume	ents have been	received in Applic	ation No	1.0			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited 2) Notice of Draftsperson's Pa 3) Information Disclosure State	itent Drawing Review (PTO-948)) :	Interview Summ Notice of Inform Other:	nary (PTO-413) Paper nal Patent Application (No(s) PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-

the treaty defined in section 351(a).

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under

Claims 13, 14 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Chantre et al. (U.S. Patent 6,177,717).

Chantre et al. anticipate a transistor that has a collector region 60, a SiGe base 81, an emitter stack overlying the collector region, said emitter stack including an emitter opening filled with T-shaped polysilicon 111, said T-shaped polysilicon overlying nitride regions 10 included in said stack, SiGe extrinsic base regions (see Figure 6) arranged on respective sides of said emitter stack, the extrinsic base regions aligned with the polysilicon layer 111, but not directly with the emitter opening contacts, and contacts.

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Claims 13 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by he admitted prior art.

The admitted prior art anticipates a transistor that has a collector region, a SiGe base, an emitter stack overlying the collector region, said emitter stack including an emitter opening filled with T-shaped polysilicon, said T-shaped polysilicon overlying nitride regions included in said stack, and SiGe extrinsic base regions arranged on respective sides of said emitter stack, the extrinsic base regions aligned with the polysilicon layer, but not directly with the emitter opening contacts, wherein a base contact is formed on the longer extrinsic base region.

Response to Arguments

Applicant's arguments filed 11/13/02 have been fully considered but they are not persuasive. Applicant argues the cited prior art fails to teach T-shaped polysilicon. The background section of the present specification clearly admits to the formation of T-shaped polysilicon gates. Chantre et al. teach that polysilicon is well known as a T-shaped gate material, but indicates that single crystal silicon is preferred.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Lattin whose telephone number is (703) 305-3017. The examiner can normally be reached Monday through Friday from 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached at (703) 308-3325. The fax number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Supervisory Paluri Diaminer

December 4, 2002